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Patent Number :
  US5743046 A 19980428 [US5743046]
Title :
  (A) Jack shaft door garage operator
Patent Assignee :
  (A) CHAMBERLAIN GROUP INC (US)
Patent Assignee :
  The Chamberlain Group, Inc., Elmhurst IL [US]
Inventor(s):
  (A) SIEGLER MARK D (US); CHANG JAMES S (US); MILLER DAVID J (US)
Application Nbr :
  US82974297 19970331 [1997US-0829742]
Filing Details :
  Cont. of US456874 19950601 [1995US-0456874] (Abandoned)
Priority Details :
  US45687495 19950601 [1995US-0456874]
US82974297 19970331 [1997US-0829742]
Intl Patent Class :
  (A) E05F-011/00
IPC Advanced All:
 E05F-015/16 [2006-01 A - I R M EP]
  E05D-015/24 [2006-01 A - N R M EP]
IPC Core All :
  E05F-015/16 [2006 C - I R M EP]
  E05D-015/16 [2006 C - N R M EP]
EPO ECLA Class :
  E05F-015/16B9D
EPO ICO Class :
  P05D-013/12G2
  P05D-015/24
US Patent Class :
  ORIGINAL (O) : 049199000;
                             CROSS-REFERENCE (X): 049322000
Document Type :
  Basic
Citations :
  US1216202; US1417104; US1465695; US1863961; US2096251; US2185828;
  US2580311; US2841724; US2882044; US3147001; US3311159; US3412780;
  US3685567; US3785089; US3934635; US4085629; US4202644; US4241540;
  US4274227; US4356668; US4385471; US4460030; US4472910; US4520591;
  US4538661; US4597224; US4597428; US4621452; US4653565; US4956938;
  US5064147; EP151427 A; EP151427; FR2634815 A3
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Publication Stage :

(A) United States patent

1 / 1 LGST - ©EPO

Patent Number :

US5743046 A 19980428 [US5743046]

Application Number :

US82974297 19970331 [1997US-0829742]

Action Taken :

20000613 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20000412

Update Code :

2003-22

1 / 1 CRXX - ©CLAIMS/RRX

. Patent Number :

5,743,046 A 19980428 [US5743046]

Patent Assignee :

Chamberlain Group Inc

Actions :

20000412 REISSUE REQUESTED

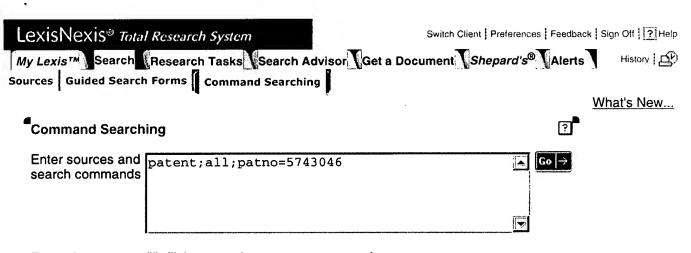
Issue Date of O.G.: 20000613

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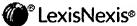
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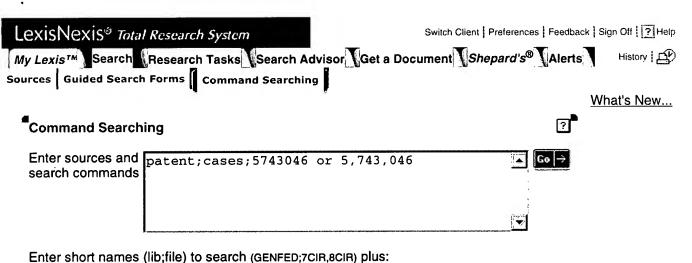
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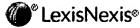
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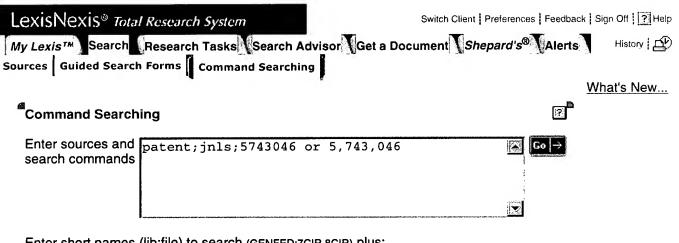
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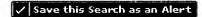
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UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5743046

Link to Claims Section

April 28, 1998

Jack shaft door garage operator

REISSUE: April 12, 2000 - Reissue Application filed Ex. Gp.: 3623; Re. S.N. 09/547,563 (O.G. June 13, 2000)

APPL-NO: 829742 (08)

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ASSIGNEE-AT-ISSUE: The Chamberlain Group, Inc., Elmhurst, Illinois, United States (US), United States company or corporation (02)